

```
List = []

def show_menu():
    print("[Menu Options]\n")
    print("1 - Add Items")
    print("2 - Search for an item")
    print("3 - Remove an item")
    print("4 - View all items (sorted)")
    print("0 - Exit Program")

def add_item():
    while True:
        item = input("Enter Item [x to quit]: ")
        if item.lower() == 'x':
            break
        List.append(item)

def search_item():
    item = input("Enter Item: ")
    if item in List:
        print("Found")
        count = List.count(item)
        print(f"{item} found {count}x in the list")

    else:
        print("Not found")

def remove_item():
    item = input("Enter Item: ")
    if item in List:
        print("Item found and removed")
        List.remove(item)
    else:
        print("Item not Found and deletion unsuccessful")

def view_items():
    List.sort()
    print(List)

choice = None
while choice != 0:
    show_menu()
    choice = int(input("Pick one [0 to quit]: "))
```

```
if choice == 1:  
    add_item()  
elif choice == 2:  
    search_item()  
elif choice == 3:  
    remove_item()  
elif choice == 4:  
    view_items()  
if choice <=1 and choice >=4:  
    print("Invalid input")  
  
print("Thank you!")
```

```
C:\Users\COMLAB\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:\Users\COMLAB\PycharmProjects\pythonProject1\main.py  
[Menu Options]  
  
1 - Add Items  
2 - Search for an item  
3 - Remove an item  
4 - View all items (sorted)  
0 - Exit Program  
Pick one [0 to quit]: 1  
Enter Item [x to quit]: Egg  
Enter Item [x to quit]: Bacon  
Enter Item [x to quit]: X  
[Menu Options]  
  
1 - Add Items  
2 - Search for an item  
3 - Remove an item  
4 - View all items (sorted)  
0 - Exit Program  
Pick one [0 to quit]: 2  
Enter Item: Egg  
Found  
Egg found 1x in the list  
[Menu Options]  
  
1 - Add Items  
2 - Search for an item  
3 - Remove an item  
4 - View all items (sorted)  
0 - Exit Program  
Pick one [0 to quit]: 3  
Enter Item: Egg  
Item found and removed  
[Menu Options]
```

```
1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 4
['Bacon']
[Menu Options]
```

```
1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program|
Pick one [0 to quit]: 0
Thank you!
```

```
Process finished with exit code 0
```